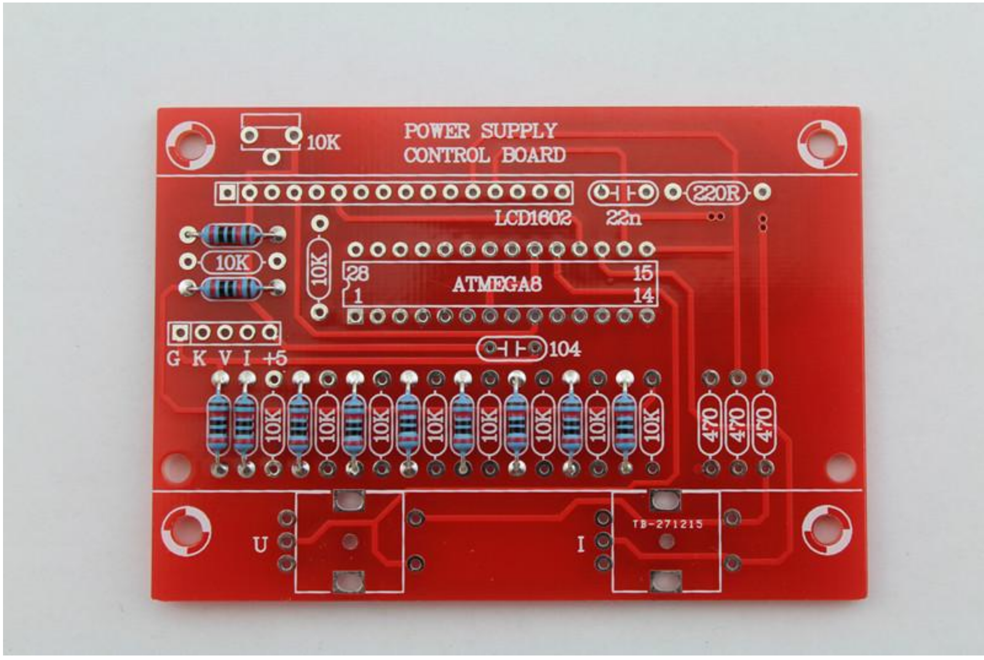
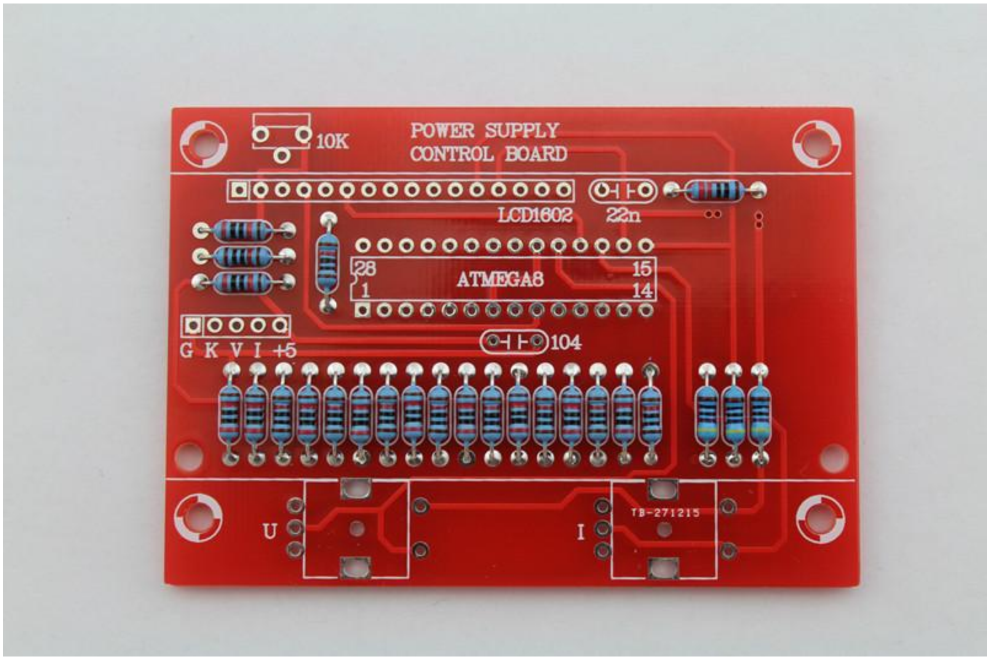
Instruction of Installation of
0-28V Power Supply

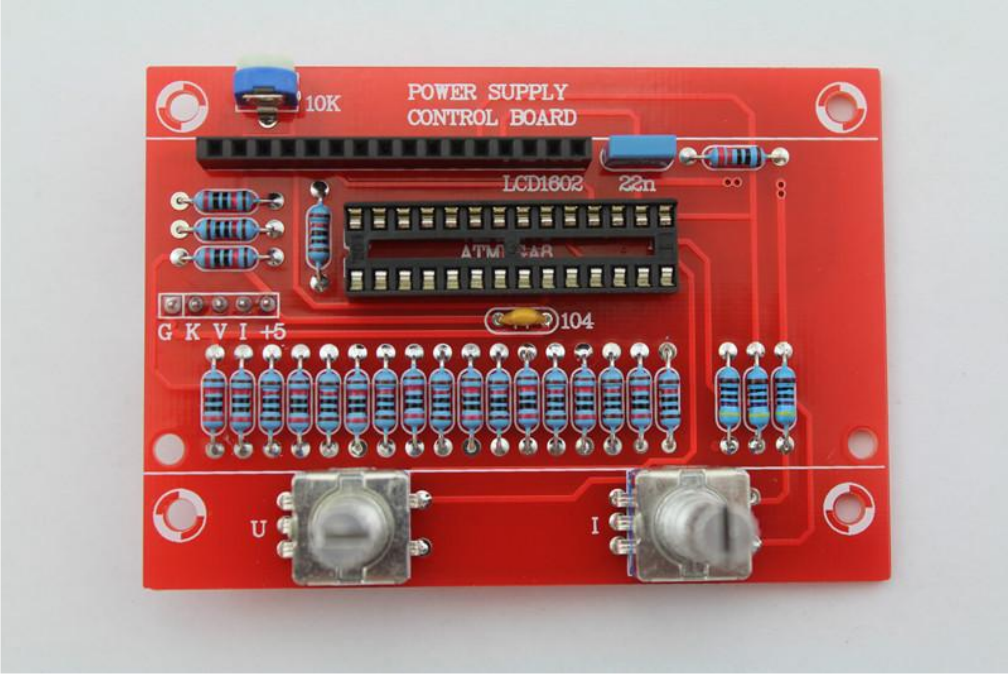
Installation Steps:

The first step is the Resistance Welding. If you are not familiar with the chromatic circle, please check the resistance with the multi-meter.

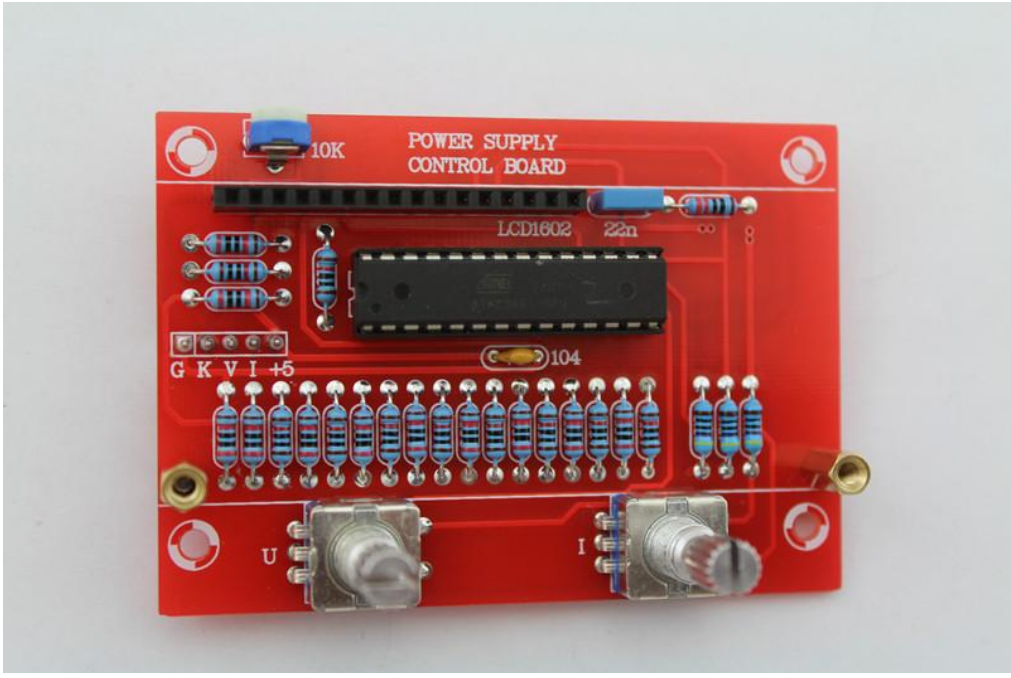


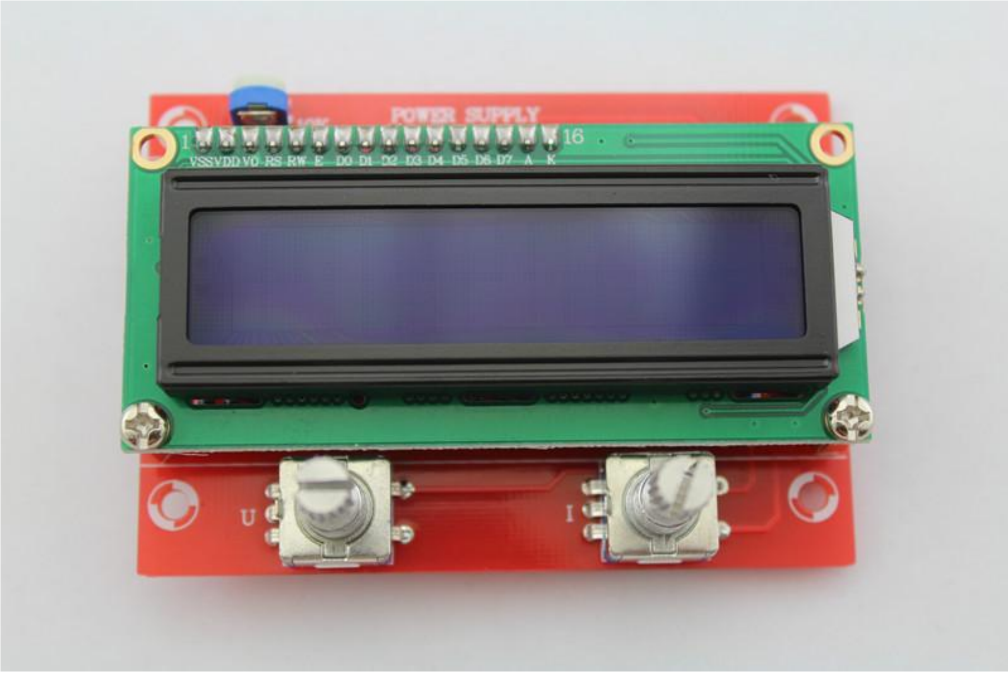


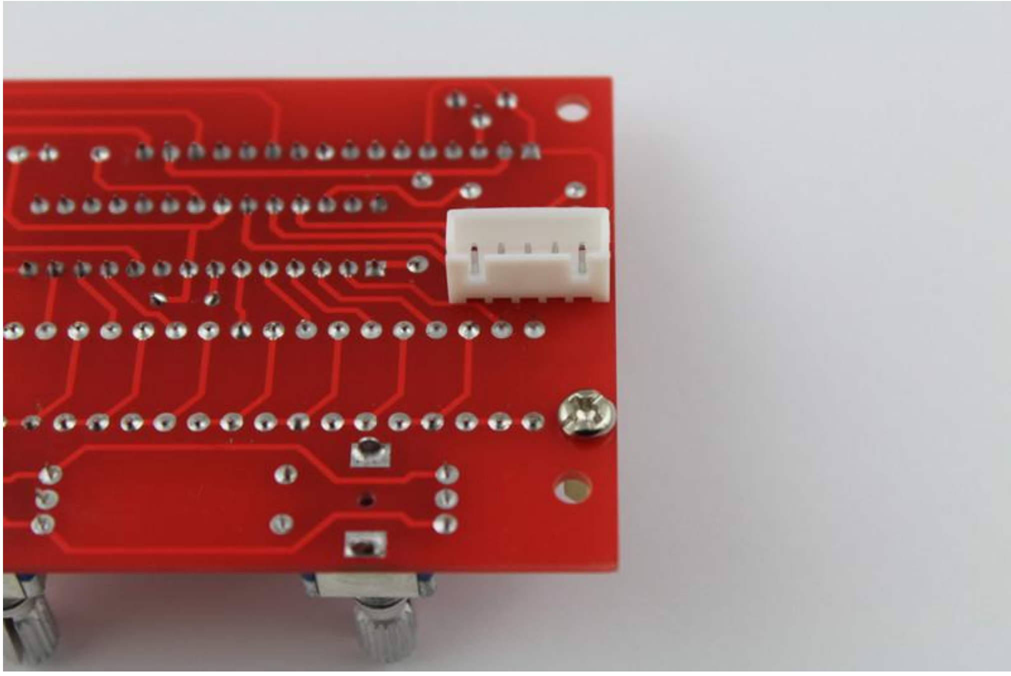
Please install the other components from lower and smaller ones.



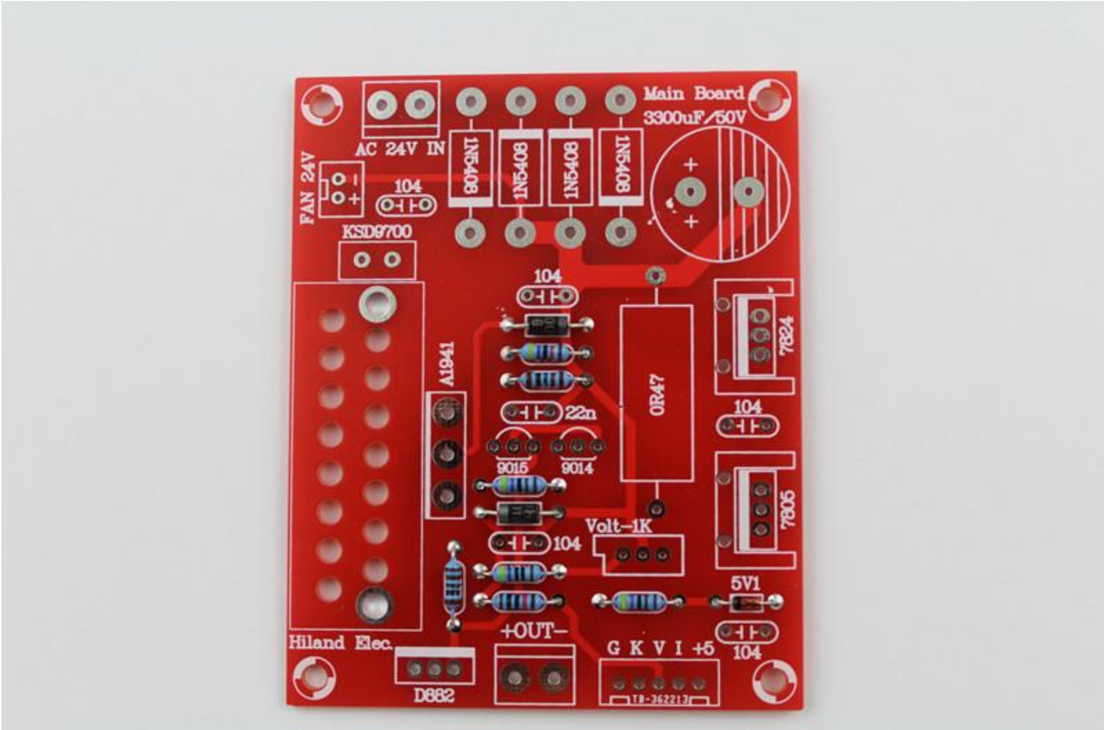
Connect M8 and the LCD which is welded with the insert pin. Be aware of the direction of IC.

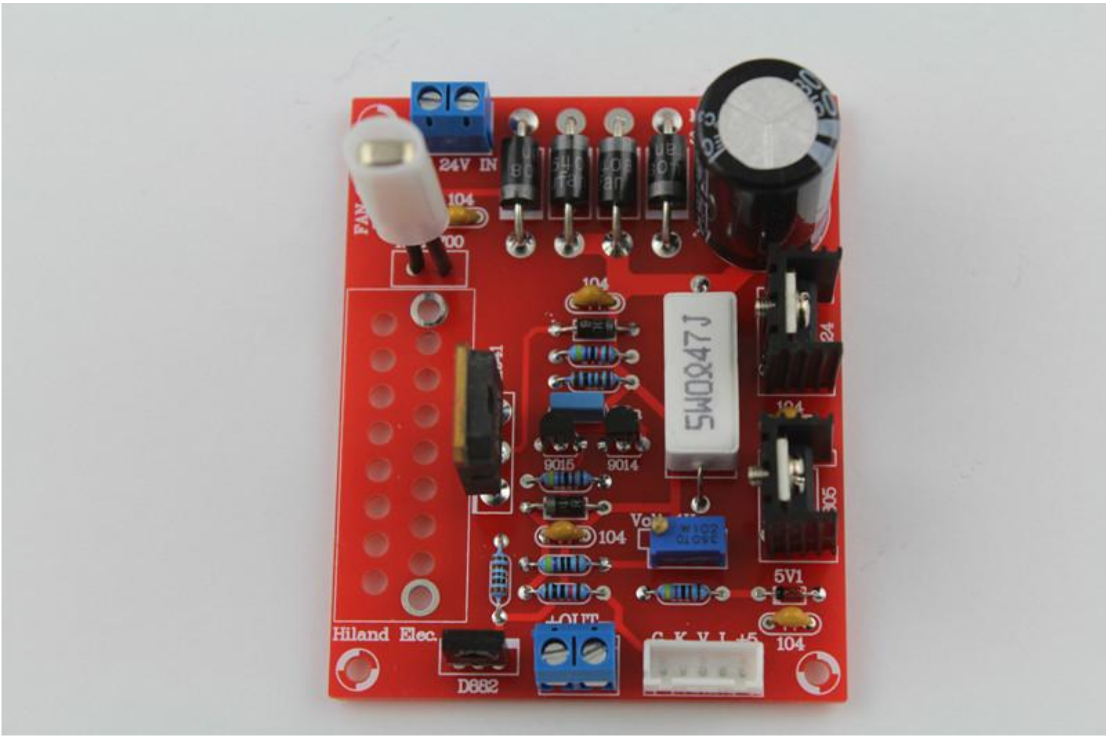


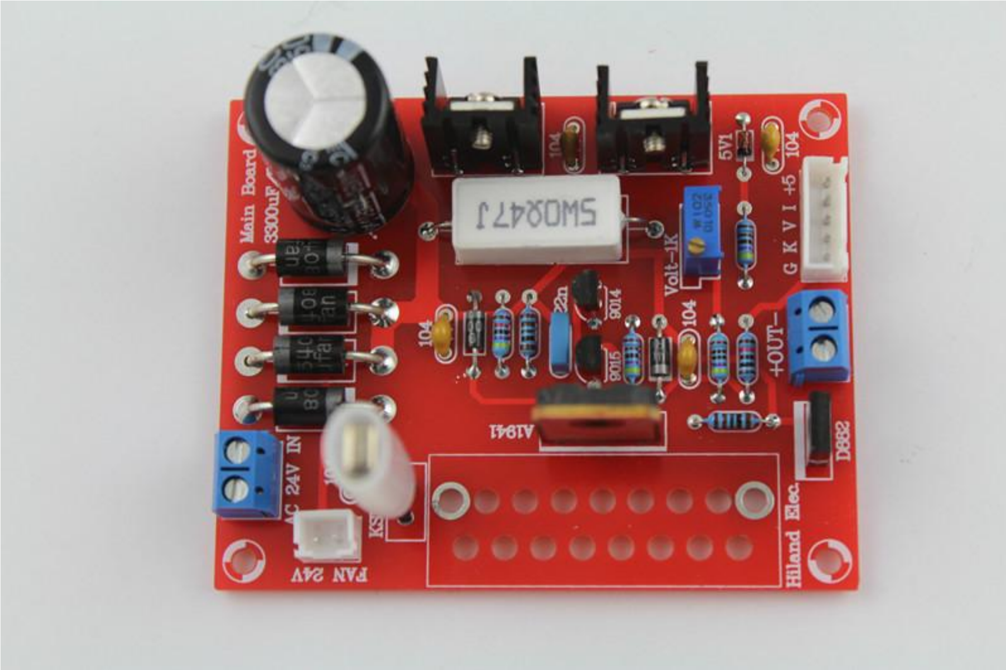




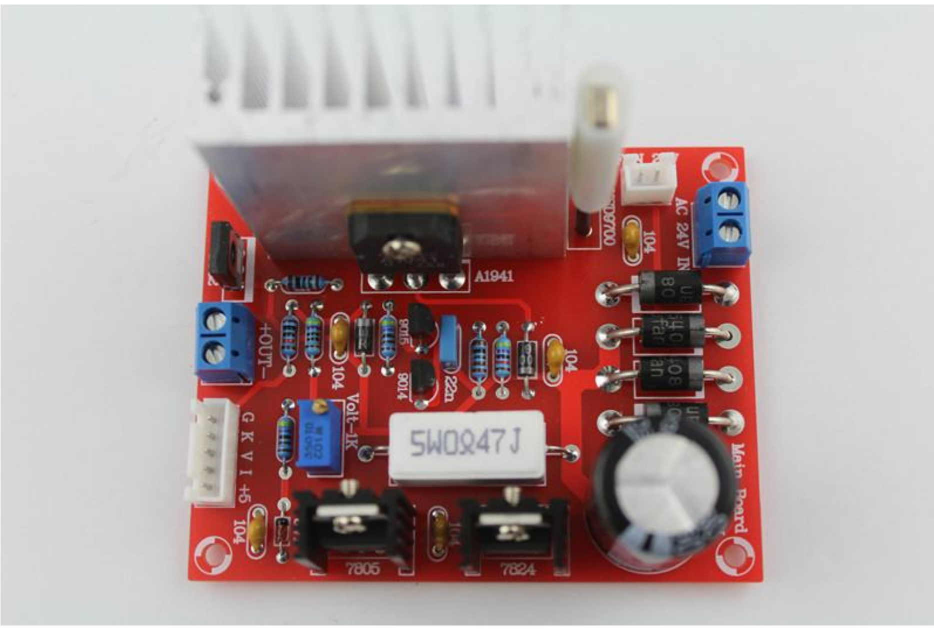
Please also be aware of the size and installation direction of the diodes.


Main Board
3300uF/50V
AC 24V IN
FAN 24V
104
1N5408
1N5408
1N5408
1N5408
KSD9700
104
A1941
7824
0R47
22n
9015
9014
104
7805
Volt-1K
104
5V1
104
Hiland Elec.
+OUT-
G K V I +5
D882

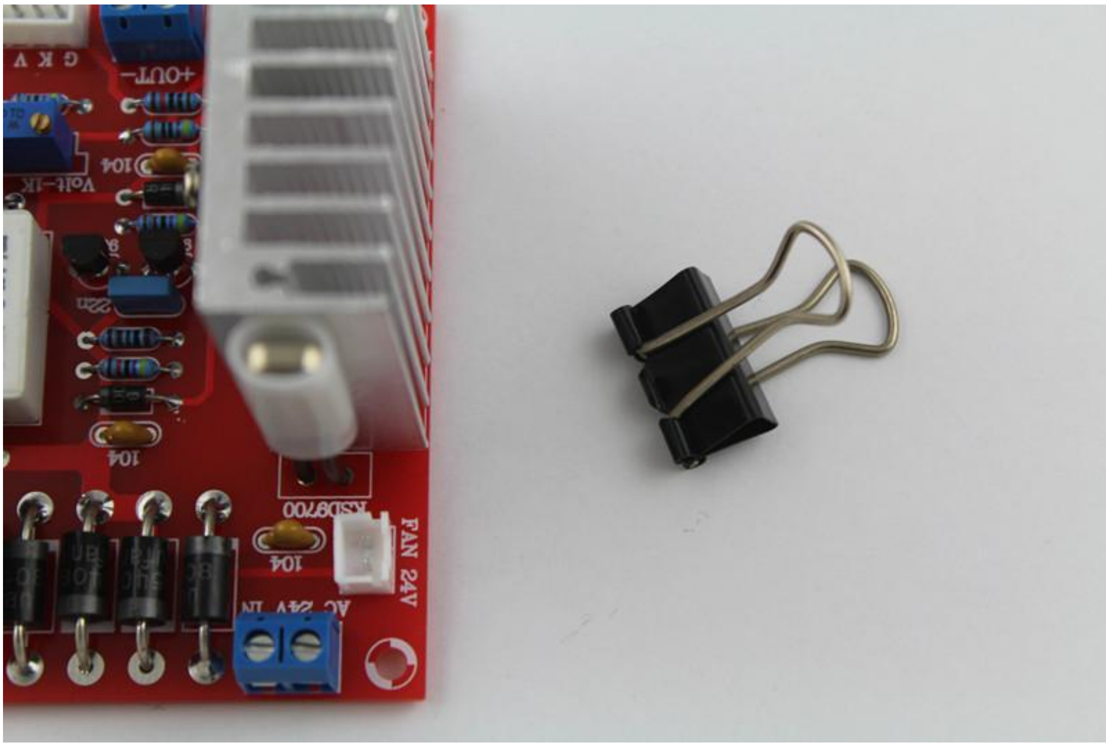

24V IN
104
104
5W0Ω47J
9015
9014
104
5V1
104
Hiland Elec.
D882
G K V I +5

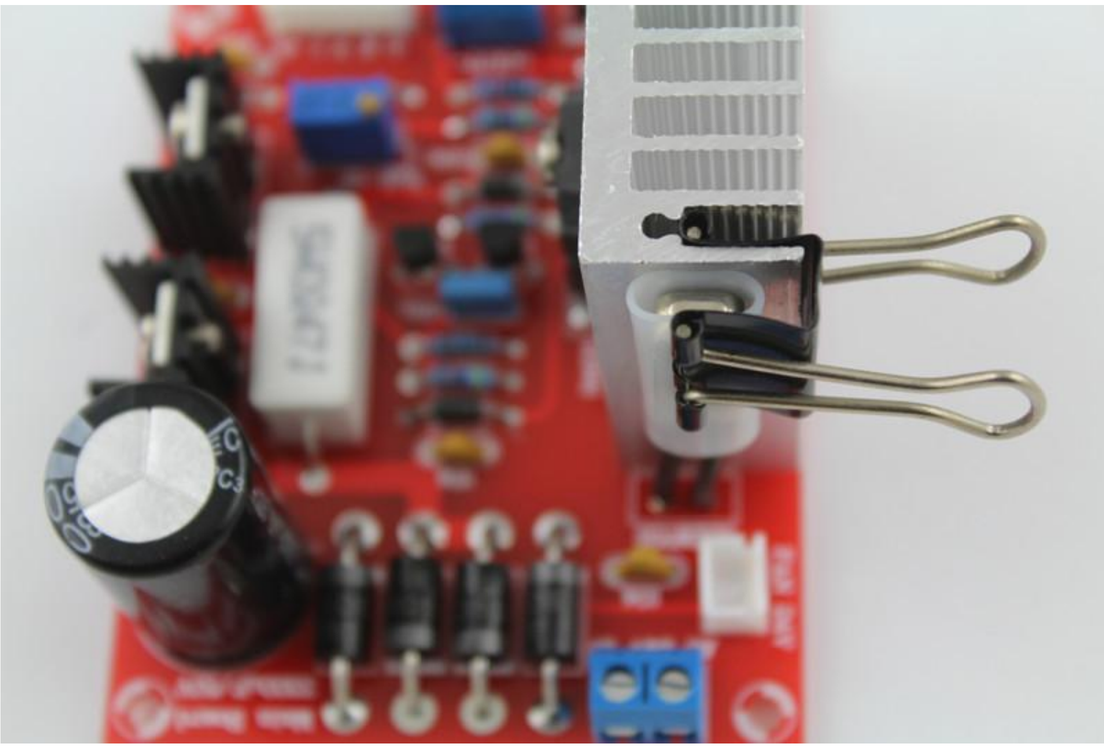


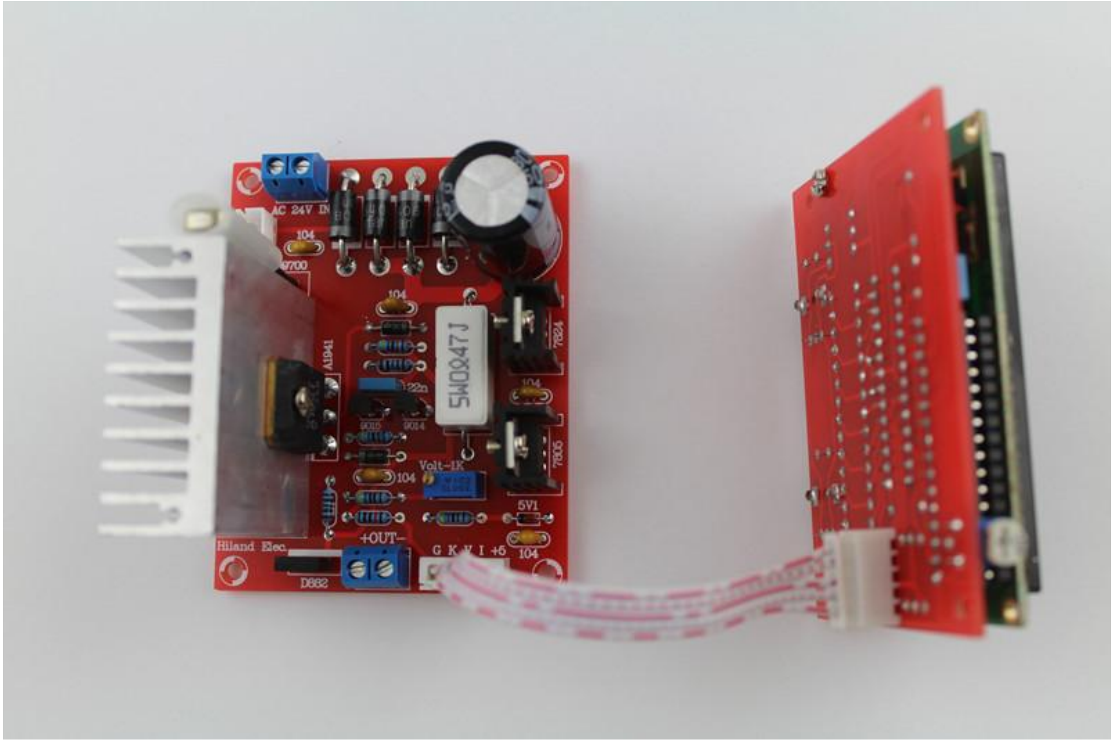
The heat sink is optional (Please make sure that you have installed heat sink of considerable size on A1941 before starting the power, and the heat sink should be insulated from the circuit. If the heat sink is not sizable enough, the cooling fan is thus a must, for which a 24V socket has been kept for this purpose on the board.)

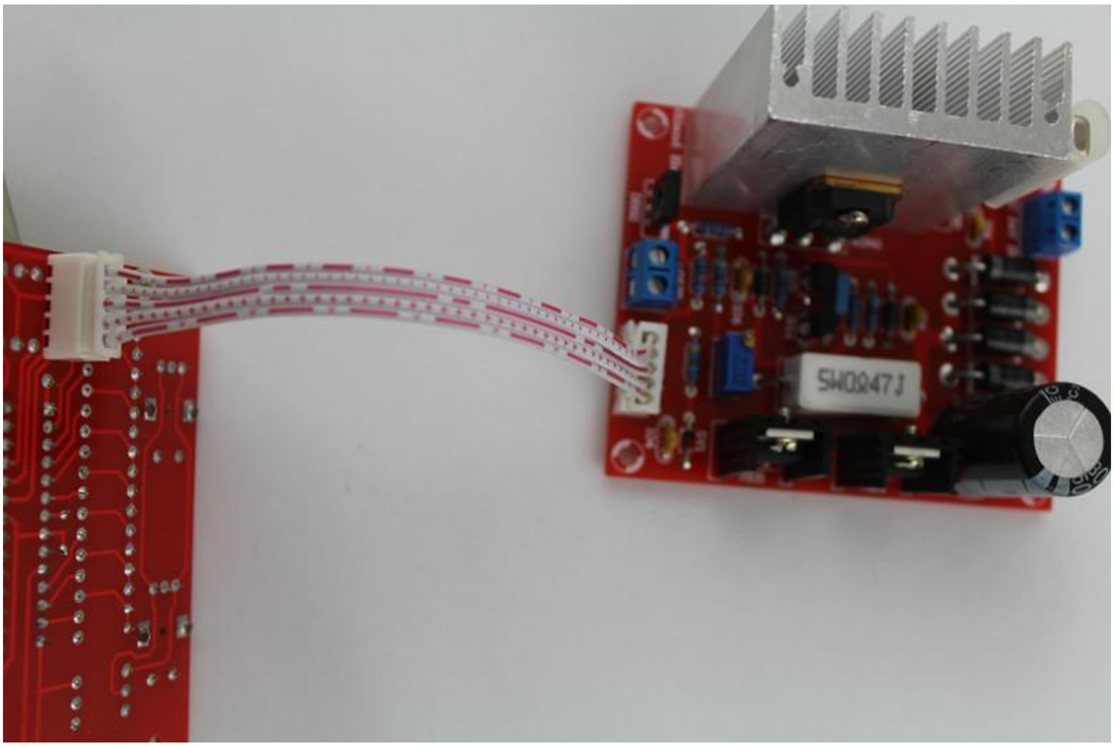


Do not remove the plastic cover on 9700, And make it close to the heat sink.I use a paper clips.

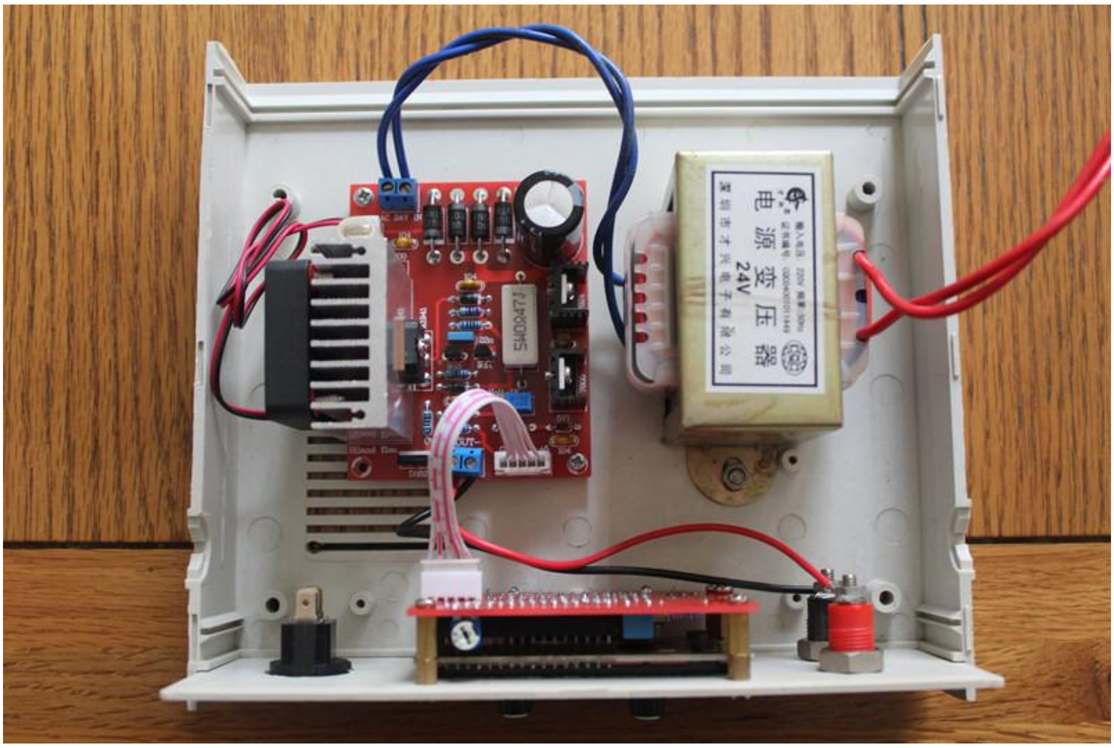





AC 24V IN
104
Volt-1K
5V1
+OUT-
G K V I +5
Hiland Elec.
D882

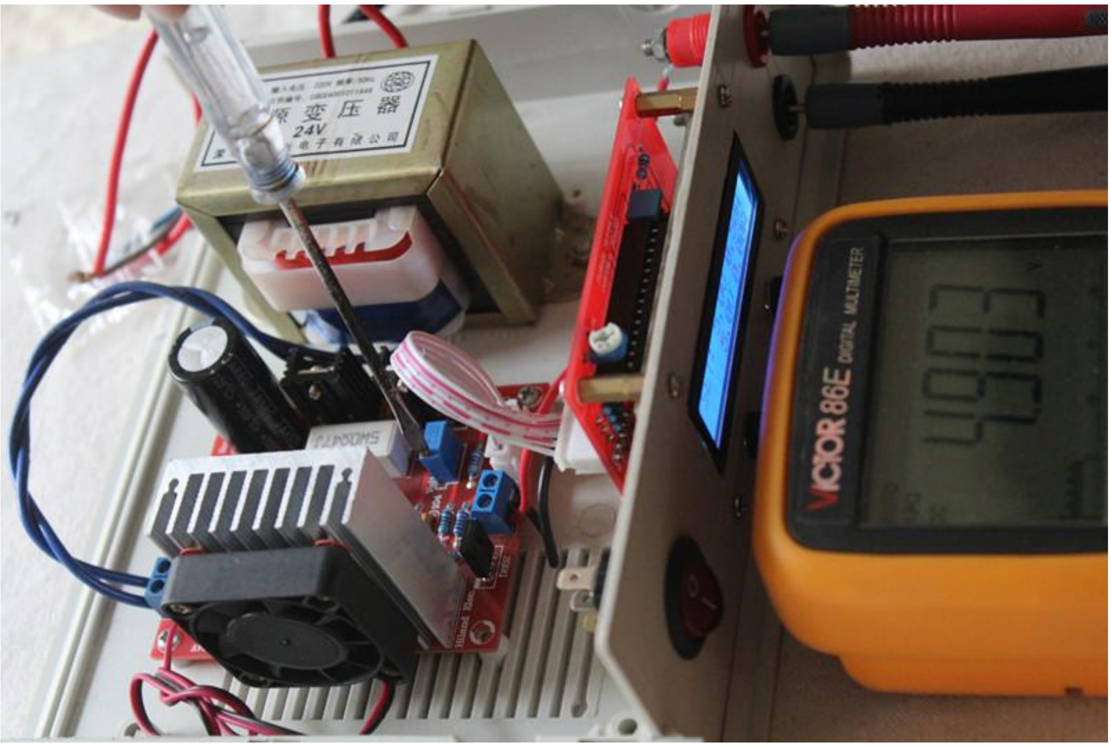


You can put it in a standard instrument case.



After the installation, please double check that everything is in its place, and then you can start the power and test the device.

Connect the power(24V AC). The screen will light without any character display.Don’t be panic, right adjust the resistance (10k)and you will see the character. Adjust 1K-102 and make the output voltage is same to the LCD shown.





Attentions:

1. The output of the transformer is single 24V AC or dual 12V AC (same as 24V), and the power could be determined according to your need. If a full load output (28V2A) is needed, the power of the

transformer should be greater than 60W.

2.Please make sure that the heat sink is insulated from the circuit when it is installed on A1941. The circuit is of a linear stabilized electricity power, and the power dissipation of A1941 is at a relatively high level, thus please ensure that A1941 has a good cooling effect.

3.Making of a power supply involves high current and high voltage. Any error in installation could lead to unexpected danger, so please double check the component type and install correctly.

We are confident that this instrument will be of great help to you. Hope you will have delight in your DIY journey!